



# Influenza Situation Report: 2015-2016 Season

Department of the Navy

Week 11 (13 March to 19 March 2016)

## Overall Summary

The number of laboratory positive cases and antiviral prescriptions remain above seasonal baselines but have decreased from the week prior. The rates of influenza cases among children remain above baseline.

## Key Findings

### Influenza Activity and Surveillance

#### Laboratory

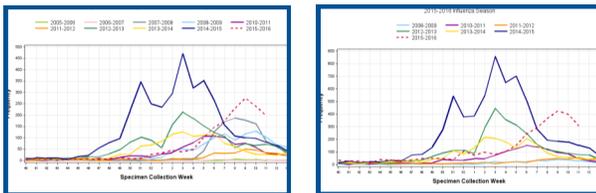
198 laboratory positive influenza cases were identified during Week 11, substantially above baseline. [Details](#)

#### Antivirals (AVs)

308 AV medications were dispensed in Week 11, substantially above baseline. [Details](#)

#### Influenza-Like Illness (ILI)

Overall, 4.7% of outpatient medical encounters were due to ILI, above baseline. [Details](#)



### Active Duty Vaccination Rates

Navy: 94.2%  
Marine Corps: 96.3%  
US Fleet Forces: 98.7%

#### [View Table](#)

Data source: MRRS, current as of 21 Mar 2016.

### Severity Indicators

#### Inpatient

This week, there were nine inpatient laboratory positive cases and 17 inpatient antiviral prescriptions. There were two hospitalized influenza cases reported to DRSi. [Details](#)

#### Coinfections

There were 12 bacterial coinfections identified among laboratory positive cases during Week 11. [Details](#)

### Select Populations

#### Active Duty and Recruits

In Week 11, there were 27 laboratory positive cases and 45 AV prescriptions dispensed to active duty personnel. Among recruits, there were two laboratory positive cases. Two recruits were dispensed AV prescriptions. [Details](#)

NHRC surveillance reports febrile respiratory illness rates were substantially elevated at MCRD San Diego and at or below expected values at MCRD Parris Island and NRTC Great Lakes for week 10. [Details](#)

#### Children

The number of influenza positive laboratory cases among children surpassed one standard deviation. [Details](#)

Prepared by the EpiData Center ([email](#); [web](#))

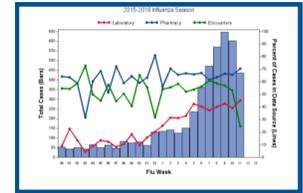
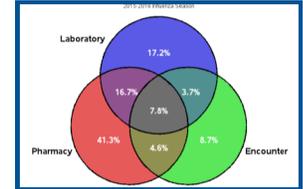


# Influenza Activity and Surveillance

## Overall Burden

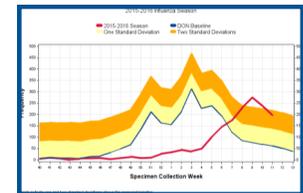
The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

- During Week 11, there were 436 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (70.4%). Thirty-four cases (7.8%) were identified in all three sources.
- Since Week 40, there have been 4,732 DON cases identified in at least one of the three data sources.



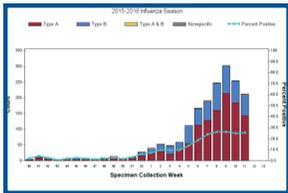
## Laboratory Cases

- 198 laboratory positive influenza cases were identified during Week 11 (136 type A, 59 type B, 1 type A & B, 2 non-specific); surpassing one standard deviation above baseline.
- Most common facilities this week: NMC San Diego (28), NH Jacksonville (25), NH Camp Pendleton (14), and NH Camp Lejeune (13).
- Since Week 40, 1,648 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NMC San Diego (393), NH Jacksonville (160), and NH Camp Pendleton (140).



## Specimen Positivity

- 25.7% of all influenza specimens tested during Week 11 were positive, higher than the same time last season (12.3%).
- When grouped by parent facility, 17 locations (60.7%) tested more than ten specimens. The facilities with the highest specimen positivity were NHC Hawaii (40.0%) and NH Jacksonville (37.3%).

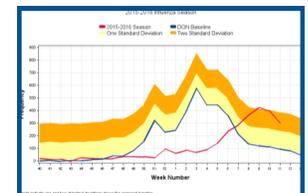


Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 9	182(60.1)	30(9.9)	91(30.0)	303
Week 10	168(65.9)	27(10.6)	60(23.5)	255
Week 11	133 (62.7)	13 (6.1)	66 (31.1)	212
Season	1,042(57.5)	162 (8.9)	607 (33.5)	1,811

## Antiviral Prescriptions

- 308 antiviral prescriptions (306 oseltamivir, 2 amantadine) were dispensed during Week 11, surpassing one standard deviation above baseline but fewer than the week prior.
- Most common facilities this week: NMC San Diego (49) and NH Jacksonville (27).
- Since Week 40, the majority (99.1%) of prescriptions were for oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 11	2 (0.6)	306 (99.4)	0 (0.0)	0 (0.0)	308
Season	27 (0.9)	3,058 (99.1)	0 (0.0)	0 (0.0)	3,085



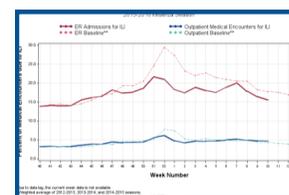
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# Syndromic Surveillance

## Influenza-Like Illness (ILI)

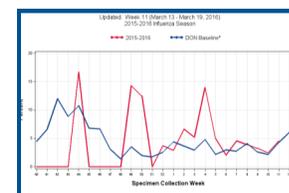
- The percent of medical encounters that included an ILI diagnosis during Week 10 (lagged due to data availability):
  - 4.7% of outpatient encounters (above baseline)
  - 15.6% of ER admissions (below baseline)
- When grouped by parent facility, 15 DON facilities (39.3%) experienced an increase in the proportion of outpatient ILI visits during Week 10; one experienced an increase above 25%; NH Patuxent River (31.2%) experienced the highest increase.



## Severity Indicators

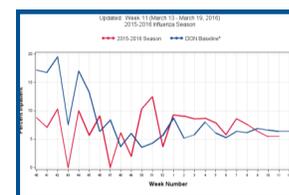
### Inpatient Laboratory

- Nine influenza positive laboratory cases (4.5% of all laboratory cases) were identified in the inpatient setting during Week 11.
- Cases were identified at NMC San Diego (4), NH Camp Pendleton (2), AMC Brooke-SAMMC-Sam Houston (1), 633rd Med Grp Langley-Eustis(1) and WRNMCC (1). Cases consisted of retirees (3), family members (4), and recruits (2). Six cases were classified with Type B and three with Type A.



### Inpatient Pharmacy

- 17 influenza AVs (5.5% of all influenza AVs) were prescribed in the inpatient setting during Week 11, below baseline (6.4%).
- The inpatient cases were most frequently at NMC San Diego (10) and NH Camp Lejeune (3). The inpatient cases were among spouses (6), other sponsors (4), children (4), recruits (2) and active duty (1).



### Influenza-Associated Hospitalization Reports

- Two influenza cases were reported to DRSi during Week 11 for influenza-associated hospitalizations.

## Bacterial Coinfections

- 12 coinfections were identified during Week 11; respiratory infections included *Streptococcus* (4) and *Moraxella* (1). [Details](#)
- Overall coinfection case counts remain below baseline.

Proportion Bacterial Coinfections by Respiratory Source and Percent of Laboratory Positive Cases with a Bacterial Coinfections since Week 40, 2015-2016 Season				
	Coinfections by Respiratory Source, n (%)			Lab Cases with Bacterial Coinfection (%)
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
<b>Current Season (n=75)</b>	28 (37.3)	9 (12.0)	38(50.7)	4.6
<b>Cumulative Baseline (n=93.5)</b>	35.7(38.1)	8 (8.6)	49.8 (53.3)	3.8

\* Cumulative baseline calculated as a weighted average over three years and may not represent whole numbers.

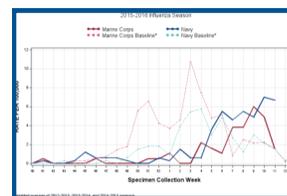
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## Select Populations

### Active Duty

- 27 laboratory positive influenza cases were identified among active duty Navy (24) and Marine Corps (3) service members during Week 11 (18 type A, 7 type B, and 2 unknown). Cases were identified at NMC San Diego (6), NMC Portsmouth (3) Ft. Belvoir Community Center (2), NHC Patuxent River (2) and 14 other facilities (1 each).
- 45 active duty service members (40 Navy, 5 Marines) were dispensed AVs (all oseltamivir) during Week 11.



Status	Immunity Status	Vaccine type				Total	Percent
		LAIV	IV	LAIV & IV	None		
Active Duty	Vaccinated, Immune	58	103	2	-	163	80.3%
	Vaccinated, not Immune	7	7	-	-	14	6.9%
	No vaccination record	-	-	-	26	26	12.8%
<b>Total</b>		<b>65</b>	<b>110</b>	<b>2</b>	<b>26</b>	<b>203</b>	-
Recruit	Vaccinated, Immune	20	23	-	-	43	71.7%
	Vaccinated, not Immune	16	1	-	-	17	28.3%
		36	24	-	-	60	-

(LAIV-live-attenuated influenza vaccine (intranasal); IV-inactivated influenza vaccine (injection)  
Vaccinated, Immune: Vaccinated more than 14 days prior to infection.

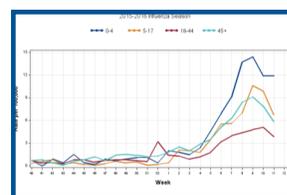
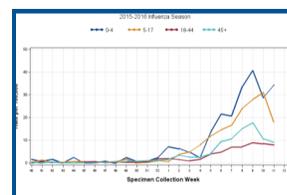
### Recruits

- Two laboratory positive influenza cases were identified among recruits during Week 11 NMC San Diego.
- Two AVs were dispensed to recruits during Week 11.

Number of DON Active Duty and Recruit Cases since Week 40, 2015-2016 Season					
Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory Positive	151	52	18	42	263
AV Prescriptions	404	137	8	87	636

### Children

- The rate of laboratory positive influenza cases (per 100,000) among children was 34.4 for ages 0-4 years and 18.2 for ages 5-17.
- 95 laboratory positive influenza cases were identified among children during Week 11, surpassing one standard deviation above baseline.
  - Two cases were identified from an inpatient setting at NH Camp Pendleton and WRNMMC; all others were identified from outpatient settings at 31 different facilities, most frequently NH Jacksonville (14), NH Camp Lejeune (10). There were 43 cases among children ages 0-4 and 52 among children ages 5-17.
- The rate of AV prescriptions (per 100,000) is highest among children 0-4 years (11.9) followed by children 5-17 years (6.8).
- There were 125 AVs dispensed to children during Week 11, over three times the baseline estimate.
  - This week's cases (all oseltamivir) include 54 children ages 0-4 year and 71 children ages 5-17 years. NMC San Diego (17) dispensed the most AVs. Four were dispensed in inpatient settings.



## In the News

- During Week 10, influenza activity in the US continued to increase. Eight pediatric influenza associated deaths were reported to the CDC. [Details](#)

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